IN RETROSPECT:

As we continue our quest thru the Super Computers era; we should look back at our past to observe our real gains. First, we learned to manage stacks of computer punch cards; then onward to piles of floppy disks., now it's virtual memory and desktop programs. Next, we will be asked to properly manage our memory - Unix has been doing this for many years - what's next? C.P.M.? TRSDOS? It sounds like someone is saying "Hey"! Learn to program efficiently." Maybe the end result will be neatly programmed 16K Programs someday.

PRINTERS - 24 PIN:

"BYTE" Magazine has an article in its April '88 Issue comparing 37 different dot matrix printers (24 pins) from $400 to $2000. The article shows the many qualities and useful characteristics of each printer.

They all were compared and tested using special applications; some had one major defect. "Would not complete tests due to software incompatibility." I will list them so you will know their manufacturer's names:

Epson	MODEL	LQ500-850
NEC		P2200
Seikosha		SL 80A1
Panasonic		KX P1524
Okidata Microline		393
Mannesmaan Tally		MT 330
Citizen Trubute		224

Since information on Printers is limited, you may be cautious about buying one of these printers if you're shopping for a printer. Out of 37 Models, these couldn't complete the software tests. They may not run with your softwares either. Shop carefully before you buy. If you wish to read the printer article come to the meeting, or buy the "BYTE" magazine.

ARRIBA:

Boy, the names they use to identify a program with. "Arriba" is a MS-DOS disk-hard disk management program. We obtained it for our new computer users. This program puts the whole computer on automatic key commands: file transfers, disk copy, DOS commands, and storage, are done without prior computer knowledge. With this program helping you, we know you won't get lost in the MS-DOS world. You also won't destroy your programs, etc. while learning to conquer your machine. We think you will like it; We know it will be a practical club tool. See the program at the next meeting.

MODEL 4P PROBLEM

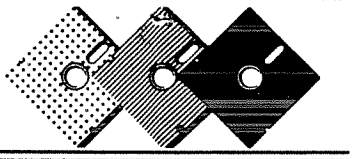
By the way, if you have a Model 4P and its screen glitches (periodic or sometimes continuous swelling or shrinking) when nothing is operating, then it may be that the power supply is missing a resistor. I found this out by accident when I was trying to figure out what was going on with mine, and noticed in a photo in the January 1986 issue of 80 Micro (page 46) that there was a resistor on the printed-circuit side of the power supply board. There wasn't one on mine. A quick check with some Tandy insiders proved that the resistor should be there. I installed a 4700 pF resistor with 5% tolerance (a rather small resistor with yellow / purple / red / gold color bands), and the problem disappeared. A 4600 pF resistor (yellow / blue / red / gold) will also work. By the way, if you're thinking of installing the surge protector shown in that issue while your at it, refer to the June 1986 issue (page 27) for better placement of the three metal oxide varsitors (MOVs). They are disk-like jobbers with a coating of black plastic on them, and they cost about $1.69 apiece. Look for the ones with 20K20IU printed on them. They're available at Radio Shack.

For B. S. Portland, OR

I used all of my limited back-up on pfs:file and was using my Master when I purchased a program disk from 80 Micro Magazine called "UNPUBLISHED GEMS - MODEL 4". On the disk is a program called "Backup4/cmd". This program has copied all of my "limited backup" disks nicely. It will also copy pfs:file and pfs:report backups.
-H. H. North Las Vegas, NV

For those of you languishing with Profile 4 Plus, there are two items that I would like to bring to your attention. 1. Radio Shack published a patch 1635-01 April 11, 1985 to correct an error, but the patch itself contains an error. The error made the printer on reports stop after about 100 lines. I brought the problem to Small Computer (now located in Hawthorne NY) and they figured out a correction to the error. Change patch line 7 of the RS version of the patch EFCA/CMD from (X'61F3'=CD 40 6F) to (X'61F3'=C3 40 6F)

THE 80 MICRO



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DESKMATE P.C.:

Tandy will open up the interface of its "Deskmate" Desktop all-in-one utility package to other software publishers for use as a low end operating environment. The 1984 Deskmate program has been installed in more than one million machines. It was converted to offer graphics last year. Although it won't perform multitasking, it can transfer data to another computer using Deskmate too. You can order "Deskmate" from your friendly Computer Center (Radio Shack, of course).

TELEPHONE NUMBERS:

A quick listing of important Phone Numbers that you may need for software-hardware support is as follows:

For numbers to call when having trouble:

LDOS© call Misosys Inc. (703) 450-4181

LSDOS® call Logical Systems Inc. (303) 243-7070

TRSDOS® call Tandy, Fort Worth

For TRSDOS Group (817) 338-2392
For Hardware Group (817) 338-2394

Program converts TRS-80 into oscilloscope

John V Kane
J V Kane and Co Wynnewood, PA

If you use the TRS-80 input intended for cassette data as a signal input, the program shown in the figure lets the computer act as an oscilloscope.

Because the oscilloscope thus created is programmable and has memory, you can easily perform tasks that might prove to be difficult with an ordinary scope. Completely relocatable, the program runs anywhere above 4400$_{\text{H}}$ in Level 1. T-bug provides entry and control—use J 4400. **EDN**

```
06   FF   LD B ''FF
48        LD C B
06   FF   LD B ''FF
10   FE   DJNZ HERE
41        LDB C
10   FE   DJNZ BACK6
AF        XOR A A
D3   FF   OUT FF
06   FF   LD B ''FF
10   FE   DJNZ HERE
DB   FF   IN ''FF
3C   NC   A
28   [illegible]   JR Z [illegible]
3E   30   LD A [illegible]
18   [illegible]   JP LP [illegible]
3E   31   LD A 1CHR
D7        RST V DEC
CD   4    CB CL KBD
28   DE   JR Z START
FE   [illegible]   CP 0CHR
28   DA   JR Z START
C3   [illegible]   40 JP T BU
```

Using the cassette data input as a signal input, *you can utilize a simple routine to convert a Level 1 TRS-80 into an oscilloscope.*

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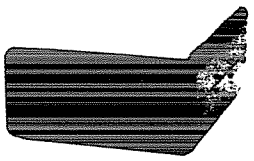
NEW LOW PRICES!

MODEL 3/4 HARD DISK DRIVES

As Low As

$379



Start enjoying the added speed and power of your Model 3/4/4D/4P with an Aerocomp hard drive. Your external hard drive arrives complete and ready to work with a cable, and a LDOS, TRSDOS or CP/M driver (your choice) supplied at no additional cost. These units are not something out of some defunct manufacturer's boneyard but brand new, quality devices designed and built by us right here in Dallas. We provide the little things that are so important for a long, trouble-free life. Things like continuous duty switching power supplies; buffered seek drives; plated media; filtered forced-air ventilation; EMI filtration; solid steel construction; front panel LED indicators; built-in diagnostics; automatic error correction; gold plated connectors; plus your satisfaction is assured by our 30 day money back guarantee. If, for any reason, you don't like the drive, we'll refund the entire purchase price, less shipping. Order yours today!

5 Meg $379 20 Meg $589

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Add $20 shipping. White case standard. Add $30 for stainless. One year parts and labor warranty.

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Complete System
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Convert your cassette Model 3 or 4 to fast disk operation with one of our easy-to-install kits. Complete instructions are provided. All you need is a screwdriver and a pair of pliers. Our own advanced controller, 100% compatible with the original, plated steel mounting towers with RFI shield and all cables and hardware are included. Select your drives from the other column and call us, toll-free, to place your order. If, for any reason, you don't like the kit, we'll refund the entire purchase price, less shipping. Order yours today!

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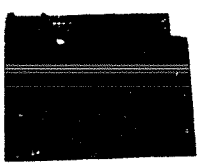
Add $5 shipping. One year parts and labor warranty.



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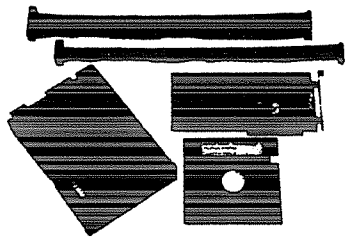
80% more disk capacity is what you get when you add our DDC to your TRS-80 Model 1. This controller has withstood the test of time. All the others are gone, yet the Aerocomp DDC endures. Why? Because it has proven itself as the only way to achieve reliable floppy disk operation on the Model 1. Requires the Radio Shack Expansion Interface and software driver. All DOS' (except TRSDOS) have the necessary double density driver. If, for any reason, you don't like the DDC, we'll refund the entire purchase price, less shipping. Order yours today! One year parts and labor warranty.



LOW COST HARD DRIVES

21.4 Meg kit $299 42.8 Meg kit $469

32.7 Meg kit $329 65.5 Meg kit $579

Don't spend more than necessary to add an internal hard drive to your Tandy 1000/A/SX/3000. Aerocomp provides the best low-cost, high quality, fast access hard drives for your Tandy 1000 or other IBM compatible. These kits come complete with the drive, controller, cables and installation instructions. Our systems allow you to boot directly from the hard drive. We use brand new genuine Seagate drives, not some obscure reject off-brand, so you can be assured of long, trouble-free, drive life. Our 20 and 30 megabyte drives have an average access time of 65ms and the 40 megabyte drive is a mere 28ms. Not a slow-stepping dog in the bunch. We provide software to park the heads for maximum protection (automatic on 40MB model). All connectors and card edges are gold plated to insure flawless service. SX owners can save hundreds by simply removing one floppy and installing our low-power 20, 30 or 40MB hard drive in its place. The sizes listed are after formatting. DOS 2.1 or later is required (40MB requires 3.2 or later). Tandy 1000 requires DMA and ROM 1.01.00 or later. Not for Tandy 1000EX/HX. 30 day satisfaction guarantee. If, for any reason, you don't like your hard drive, we'll refund the entire purchase price, less shipping. Order yours today!

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360K 3½" TEAC 35B bare drive 40trk	89
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1.4M 3½" TEAC 35H bare drive 80trk	139

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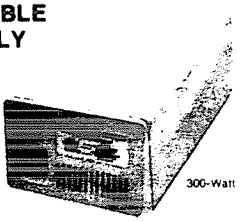

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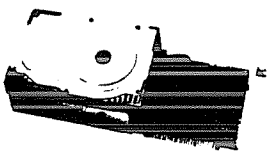

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These hard cards come completely assembled and formatted. Installation is easy and instructions are included. Low power use. One year warranty with our 30 day money back guarantee. Specify computer when ordering.

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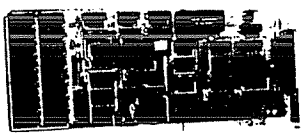

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THE $25.00 NETWORK:

With 3 MS-DOS computers of the same type within 8 feet of each other, we should be able to tie them together electronically, and have them share their own disk storage, program functions, etc. without costing the price of a L.A.N. system. Plus that, we have many talented resources to assist us in this project.

We found a program that will serve our desires, we think. It's cheap and allows us to have all three machines share their storage with each other without bothering the programs on the computers. The cost is $25.00. The name of the program is "THE $25.00 NETWORK". You can see it happen at the club meetings. This program is not for the everyday computerist; but it is simple to set up and use should you have a couple of MS-DOS machines laying around the house. I.T.R. Inc. Tp: 305/682-6121.

TRS-80 SUPPLIES:

Where is a good place to buy new Model 1,3 or 4 supplies these days? Well, not too much is around anymore. "Aerocomp" has always been a parts supplier for our machines and they still offer parts and supplies, etc. for our machines.

Should you need a complete DOS and manuals, or should you desire to increase your disk storage, or just buy a hard disk for your Model 1, 3, or 4 computers. Do you need disk drive cables, or would you wish to change from tape to floppy disks? You know we cannot count on our local Radio Shack stores. "Aerocomp" is a very reasonably priced company, and its one of our last major vendor companies. You can call them Tp: 214/638-8886 or look for their ad in 80 Micro magazine.

MULTIDOS UPDATE:

Registered owners of MULTIDOS for the Model 1, 3, or 4 computers can now update to Version 2.1. It costs $19.95 plus $1.00 for shipping.

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SAVE 50 TO 80% ON TRS80 SOFTWARE
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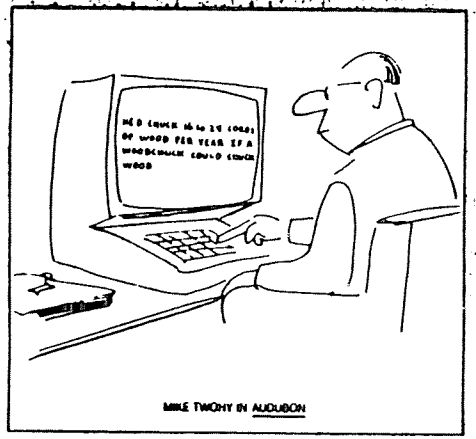
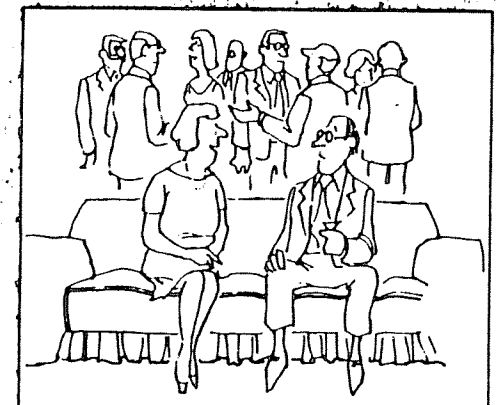


MIKE TWOHY IN AUDUBON



"Heavens! I didn't realize that any computer programmers had already retired."

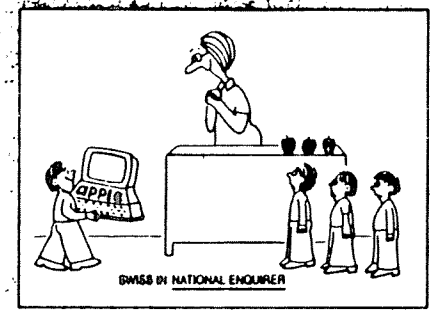
NICK IN PUNCH/ROTHCO

"But we can't phase him out. He's the only one who can spell."

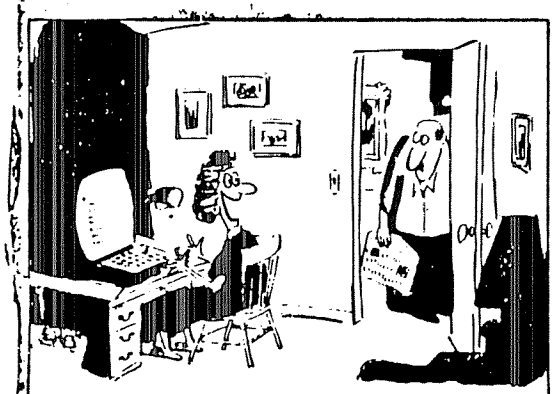
SIMPKINS IN WORLD PRESS REVIEW

"I don't know what you guys see in these computers . . ."

LORENZ IN INFOSYSTEMS

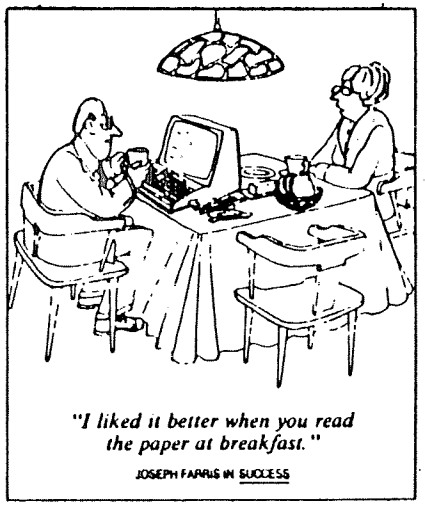


SWISS IN NATIONAL ENQUIRER



"I did it! I broke into the Fitzsimmons' computer and got Edith's recipe for chocolate cake!"

STAYSKAL, TRIBUNE MEDIA SERVICES, INC.



"I liked it better when you read the paper at breakfast."

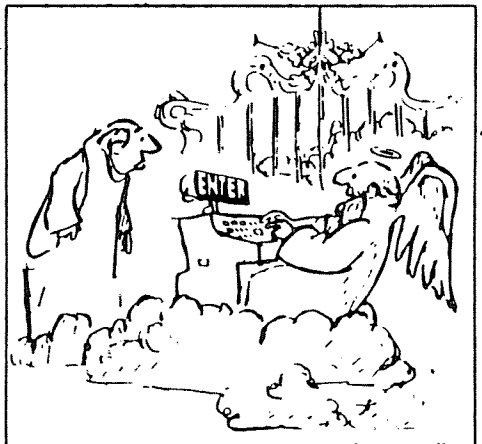
JOSEPH FARRIS IN SUCCESS

"Just act casual and try to remember which buttons you pushed."

CHENEY IN THE WALL STREET JOURNAL

"Computer still in the shop, Jenkins?"

TED TROGDON, SINGER COMMUNICATIONS, INC.



"This used to take hours."

SIDNEY HARRIS IN DISCOVER

The 1400 LT weighs only 13.5 lbs, and measures 14.5 by 12 3/8 by 3.5 inches. You'll have a hard time trying to fit the computer into a normal-sized briefcase, though. Nevertheless, there's only one more thing you need to know, and that's if you think you need it, or if you want it. Remember, the choice is yours, now that you know more about the 1400 LT.

And now that they have the perfect portable - they are going to drop it from their product line. Oh well, they will be a fantastic buy when it happens. The 1400 LT Portable is fully supported by NEC (the other portable).

LDOS 5.3 is an upgrade to LDOS 5.1.4. If you have LDOS 5.1.3; don't sweat it. The LDOS 5.3 upgrade is not a series of patches, but is in fact a totally new disk containing a complete operating system and utilities. With it, the dating range has been extended from January 1, 1980 to December 31, 1999. Another great feature is time stamps. They may seem a bother to most, but already it has saved me a lot of work by allowing me to quickly find the very LATEST version of a program I had been working on. If you don't like the time prompt during each reboot, simply enter SYSTEM (TIME=N) at the DOS prompt. From there on files will be stamped with 'relative

REINFORCEMENTS:

This month the Club was very busy retrieving old TRS-80 magazines (1979-1985) issues. We also obtained a few boxes of parts from Bob Wheeler (a Model 1 repair person). We also obtained a lot of Model 3 Programs from the Radio Shack store on Saratoga-Sunnyvale Road and Prospect Ave. These goodies resulted from a well-spent $50.00. We will pass the parts on to our own TRS-80 service people and the books we will give away. We treasure the books because they contain the Tandy History as it grew. We keep a full index of "80 Micro" (1979-1988) at the Club, so should you wish to read them, just check them out when you're at the meetings.

80 MICRO CLOSES ITS DOORS

ITS OFFICIAL
THE LAST ISSUE IS JUNE 1988
AND IS NOW IN THE PRINTERS HANDS
THE PUBLICATION CEASED TO EXIST
AS OF MONDAY APRIL 11

WEATHER OR NOT - MS-DOS COMPUTERS:

Sort of bored with a "your-guess-is-as-good-as-mine" type weather forecaster? Why not try the Accu-Weather Forecaster? You choose from either weather reports from the whole U.S. or a specific state or geographic region. There's a multitude of formats to choose from, including graphs, charts, pictures, maps, and text. Interested? The Accu-Weather forecaster costs $89.95. Contact Metacomet Software for more information, at P.O. Box 31337, Hartford, CT. 06103, Tp:203/223-5911.

THE TANDY 1400 LT:

Tandy had just come up with the 1400 LT, its first MS-DOS computer "to go". If you already planned on buying - great! But... have you heard all the facts, good and BAD?

The 1400 LT's NEC V20 processor, running at 7.16 Mhz, is fully compatible with the Tandy 1000's Intel 8088. With the LT's enforced speed, the 1400 is as fast as the Tandy 1000 SX and 3.4 times faster than an IBM PC/XT. But even as it's not as fast as the NEC V30-equipped NEC Multispeed EL, it costs $900.00 less! What about memory, you may ask? The LT comes standard with 768K of CMOS (complementary metal-oxide semiconductor) RAM. DOS accesses 640K and the remaining 128K is available as a RAM disk. Unfortunately, however, when you turn off the system, you also lose all the contents of RAM.

A RAM disk is an area of memory which the computer thinks is a disk drive. The LT's physical disk drives are designated A & B. The RAM drive is a drive C. Storing information is no different than any other disk drive, except when retrieving information it will have memory speed, not the speed of a disk drive. Eventually, you'll find it faster, as well as more reasonable to use this system of storage.

The disk drives are two 3 1/2 inch 720K which are located at the base of the computer's display and above the keyboard. The drives are incredibly quiet and small LED's indicate when they're active. Access time is terribly slow, but if used correctly, the speed of the 128K RAM disk will compensate for it.

The keyboard of the LT isn't cramped and small like most laptops. In fact, its layout is quite identical to the IBM PC. Tandy even found room for the twelve function keys. Indicator lights on the keyboard show when the caps lock, num lock, and scroll lock keys are invoked. The LT even has small slots above the functions for templates.

The LT operates on power from a 12 Volt, 2200 ma. battery pack composed of 10 C-size Nicad batteries bundled together in a plastic pack. A low battery indicator LED warns you when you need to replace, or recharge, the batteries.

BYTE BANDITS OF AMERICA
TRS-80 COMPUTER CLUB
780 Manx Ave.
Campbell, CA. 95008

CLUB SERVICES

To those who are contemplating membership, or renewal, of your membership, these Club Services are yours to use throughout the year.

DUES

Dues of $25.00 per year (Jan.-Dec.) are required. Make checks payable to "Robert W. BROWN" (Tp: 408/379-2774

INFORMATIONAL SERVICES

The Club Headquarters is available every day for those who require help in Programming, Hardware Installation, or Consultation. Each person's problems are a Priority and they are treated with care.

REPAIR SERVICES

The Club's Membership has repair oriented personnel capable of repairing, modifying, or up-grading all the Club's assortment of Computers. These repair personnel do quality work for a very modest cost. They are reliable and knowledgeable in the earliest and latest model computers.

ARCHIVES LIBRARY

The Club maintains a library of Programs and Documentations for the TRS-80 Tandy machines. These may be used by request. As this is a private collection, it's Programs are NOT to be sold or bartered.

PROGRAM OF THE MONTH

Each month the Club buys a Program for the Computers used by the Club. It is evaluated by members that have an interest in that Program. This Program is usually shown at the 4th Wednesday of the Month Meetings.

BOOK OF THE MONTH

The Club is active in a Computer Book Club in which a hard cover book is obtained each month for the Club Membership. These books can be checked out for 30 days. Monthly magazines are also included in this category:

80 Micro	PC Magazine
P.M.C.	Computer Currents
Portables	Micro Times
Computer Shopper	TRS-Times
Assorted Retail Catalogs monthly	PC World

BULLETIN BOARD

Posting of messages - Programs transfer, along with postings of other Club services and events. Free to everyone. For learning of your Modem, or for buying or selling of equipment. The BBS is designed for all types of equipment. It is on-line 24 hours - 7 days a week - 300-1200 baud. Ph # 408/374-51[illegible]39

CLUB'S MS-DOS COMPUTER

This Computer runs the Club's BBS System. It contains an assortment of (cards) for modifying, transferring,and repairing of Programs. It has an assortment of MS-DOS Programs and Public Domain Software for Club members to use for special purposes (by appointment). The machine stays at my home ALWAYS, and individuals may use it there.

It contains an E G A COLOR SYSTEM plus:

20 Meg Hard Disk	(2)300-1200 baud Modems
3.5 " Disk Drive	(2) 5&1/4" Disk Drives
PC Mouse	640K Memory
8 Serial Ports	8 Mhz Speed-up Mod. (Turbo)
Joy Stick	PC Copy Option Board
Dot Matrix Printer	2 Meter Packet Radio System

This machine is shared with the Gavilan User Group and Sam C. BROWN Ent.

MONTHLY NEWSLETTER

The articles are selected from the many publications the Club receives, plus commentaries from the Club Director and the membership.

NOTORIETY

Our Club has obtained fame Nationally-Internationally-as well as locally. This in itself is an honor for all of us. Our help to others is well known throughout the World. The Club is over 5 years old and is servicing all TRS-Tandy Computer Systems listed:

Model I	Tape-stringy-Disk-Hard Disk
" III	Home-Business
" IV	Home-Business
" IVP	Home-Business
" II	Business-Home
" 12	Business-Home
" 16	Business-Home
All MS-DOS Machines	Home-Business
Portables 100-200-600-1400	
Pocket Computers 1 thru 6	

NATIONAL SERVICES

For those of you who live outside the Club's local boundaries, the Club will service you as you desire, or need, assistance. Your Membership provides the same services as local members. Mailing costs, etc. will be your responsibility. Feel free to use the Club Services and call, or write, as you wish.

CLUB STATUS

The Club is a private Club. It has no Tax Free Status. The liabilities of the Club are the responsibility of the Club Director. NO individual members will represent the Computer Club without prior approval of the Club Director.

Sincerely,

R. W. BROWN
Club Director

Byte Bandits of Amer.
TRS-80's Computer Club
780 Mesa Ave.
Campbell, CA 95008

BYTE BANDITS CLUB OF AMERICA

MEMBER TRS-80'S MACHINE

BD Byers